

Your Harvesting Specialist

595R 590R 585R 580R 575R 570R 570 560R

CLAAS

LEXION 500 Series

Rotary and Straw Walker Combines



AE50
outstanding innovations

Productive Harvesting

Productive harvesting is the characteristic that describes all eight LEXION 500 Series combines. The line includes a full range of sizes: class 6, 7, 8 and the industry's first class 9 machines. With industry-leading fuel economy and legendary Cat® engines (462 hp for the 595R and 590R Combines), you can't go wrong with a LEXION.

LEXION 500 Series combines are the most advanced in the industry. All rotary separation models feature a unique CLAAS APS HYBRID System and RotoPlus Dual Rotor Separation for thorough and gentle threshing with separation in even the toughest conditions.

The high level of productivity and ease of operation result from the combination of advanced technology and precise engineering. Make adjustments on-the-go from inside the comfortable cab. And harvest on your schedule, not the weather's, with the exclusive Mobil-Trac™ System (MTS) undercarriage with suspension.

Every Minute Counts At Harvest

That's why a LEXION 500 Series combine makes sense. Every function is designed to save time and effort. For starters, the LEXION 590R can harvest 80 bushels of corn in about a minute. That's 4,800 bushels an hour. If you're a wheat grower, cut 30 bushels in about a minute or 1,800 bushels an hour. Unloading is just as fast and efficient, thanks to a 28 ft. (8.5 m) unloading auger, the longest in the industry. Unload 2.8 bushels of grain a second, or even 3.3 bushels standard on select models. The 590R and 595R boast the largest, foldable grain tank in the industry with a holding capacity of 360 bushels.

Awards

The LEXION 500 Series combines have been honored with multiple AE50 awards from the American Society of Agricultural and Biological Engineers (ASABE). The combines were recognized for the use of advanced technology to harvest multiple crops with a variety of LEXION header types and sizes to increase productivity by as much as 25 percent over previous methods.



- 500 Series Combines
- Chopping Corn Heads
- CLAAS APS HYBRID System
- Mobil-Trac™ System

- Corn Heads
- Corn Head AUTO PILOT
- QUANTIMETER Optical Sensing System

- MaxFlex® Heads
- Straw Walker Technology Multifinger Separation System (MSS)



Feature for Feature, Nothing Can Match

	Feature	Benefit	
3	Feederhouse (page 5-6)	<ul style="list-style-type: none"> 2 Lift Cylinders Variable Speed Feederhouse Drive (optional) Header Pitch Feederhouse (optional) Heavy Duty 	<ul style="list-style-type: none"> Highest lift capacity in the industry Allows you to adjust feederhouse and header speed for varying harvest conditions Gives you the ability to quickly set your header attachment to the exact right angle without tools To assist with the power demand of chopping cornheads
	APS Threshing System (pages 7-8)	<ul style="list-style-type: none"> APS Cylinder (Accelerated Pre-Separation) APS Concave Dis-awning Plate Parallel Concave Clearance Hydraulic Overload Protection 	<ul style="list-style-type: none"> Preserves grain quality and maximizes performance by feeding crop to the main threshing cylinder at a consistent speed, angle, width and thickness Up to 30 percent of the crop is pre-separated and goes directly to the cleaning system Improves threshing performance in difficult to thresh crops Lever operated for easy engagement No pinch points through the threshing system improves capacity and protects grain quality Single adjustment point saves time and ensures a continuous parallel concave setting Automatically opens concaves to minimize the risk of plugging
	RotoPlus Separation System (page 9)	<ul style="list-style-type: none"> Dual Rotor Design Variable Speed Rotor (optional) Independent Speed Adjustment 	<ul style="list-style-type: none"> Superior productivity using high-capacity dual rotor separation Separation performance is easily matched to crop conditions The speed of the separation rotors can be changed independently from the APS threshing system
	Straw Walker Separation System (page 11)	<ul style="list-style-type: none"> Multifinger Separation System (MSS) Impeller Straw Walkers 6 Walkers (570) 	<ul style="list-style-type: none"> Increases material agitation by combining through the crop mat for improved separation Spreads a uniform crop mat across the full width of the straw walkers to ensure maximum separation Largest separation area available
	Cleaning System (pages 13-14)	<ul style="list-style-type: none"> JET STREAM™ Cleaning System Visible Returns Window 3-D Sieve System (optional) Electric Sieve Adjustment 	<ul style="list-style-type: none"> A large cascade pre-cleaner, greater wind pressure and increased sieve area offer leading cleaning performance Allows visual inspection of returns Reduces grain loss and protects grain quality (minimizing returns) when harvesting on slopes up to 20 percent Saves time by allowing you to make independent in-cab sieve adjustments as conditions change

a LEXION Combine

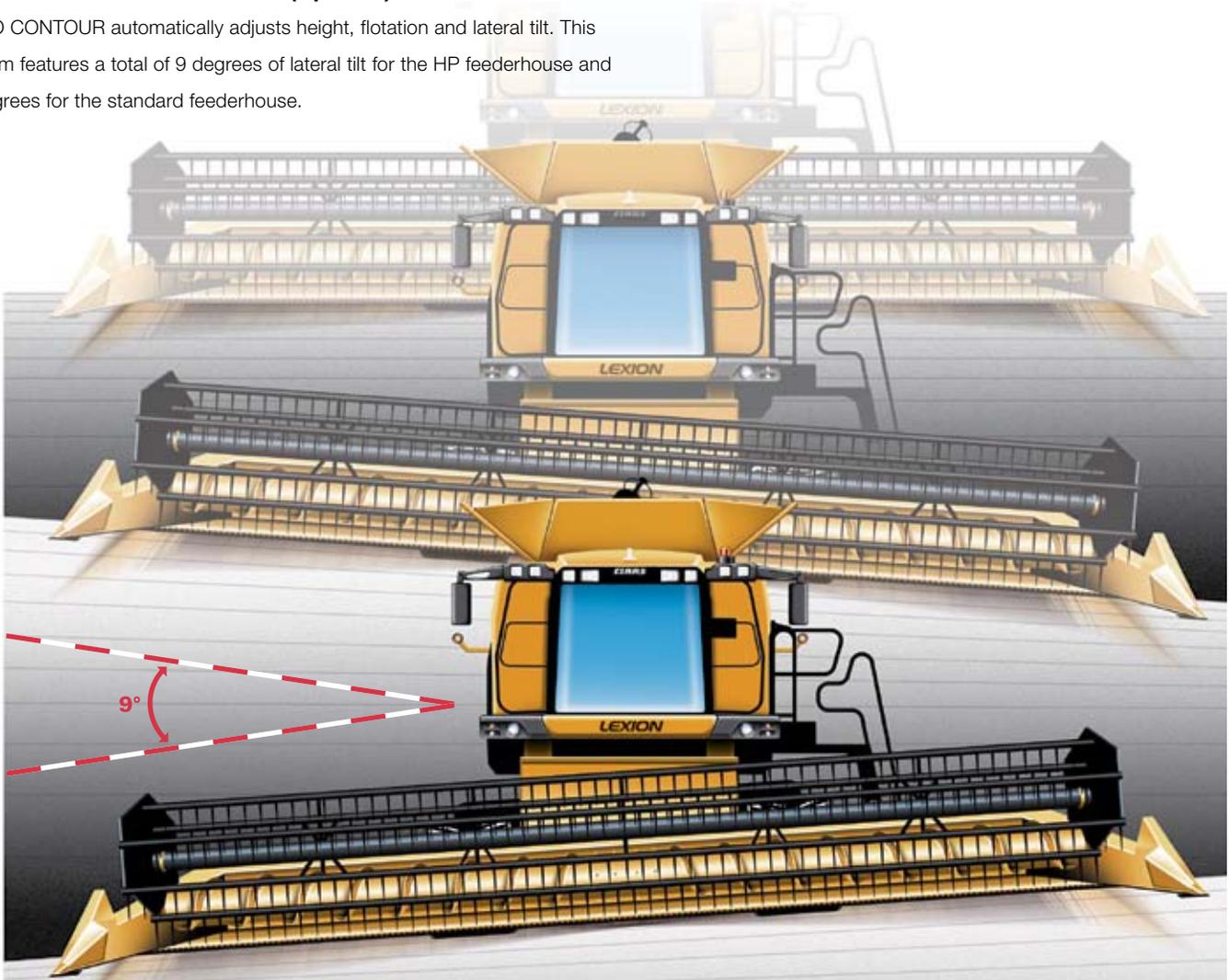
	Feature	Benefit
Grain Tank/ Grain Handling (page 15)	Grain Tank Extensions	<ul style="list-style-type: none"> All LEXION combines provide high-capacity grain tanks with the industry's first power folding extensions controlled via the cab Reduced machine height for transport, additional storage capacity
	Unloading Auger	<ul style="list-style-type: none"> 3.3 bushels per second, Standard: 595R- 580R; Optional: 575R-570R 2.8 bushels per second, Standard: 575R-560R and all rice models
	Clean-Out	<ul style="list-style-type: none"> Quick-release cross auger troughs and elevator doors and a pre-programmed "blow-out" setting make clean-out fast, easy and reliable
Engine (page 16)	C13 and C9 Engines	<ul style="list-style-type: none"> CAT diesel engines provide the highest rated fuel economy and leading reliability of any engine in the marketplace
Tracks/Wheels (pages 17-18)	Mobil-Trac System with Suspension	<ul style="list-style-type: none"> Largest footprint available on any combine, producing the least amount of compaction possible during harvest Independent front suspension offers leading ride quality and comfort in all conditions
	Tires	<ul style="list-style-type: none"> A variety of sizes and treads are available
Control and Monitoring System (pages 21-25)	Multi-Function Control Handle	<ul style="list-style-type: none"> Convenient thumb control for all header and unloading functions, as well as combine travel speed and direction
	Fingertip Control	<ul style="list-style-type: none"> All combine settings and adjustments are conveniently positioned to enable on-the-go fingertip control to reduce operator fatigue
	CEBIS Monitor	<ul style="list-style-type: none"> Single display for all combine and header settings and performance monitoring
	QUANTIMETER (optional)	<ul style="list-style-type: none"> Monitors real-time grain yield and moisture Displayed on CEBIS monitor Yield mapping (optional) Returns monitoring (optional) displays the quantity of tailings being returned Shows the quantity of returns (displayed on CEBIS screen)
	Ag Leader® (optional)	<ul style="list-style-type: none"> Option 1: Complete yield mapping system with Insight display, GPS and software Option 2: Ag Leader "ready" includes yield and moisture sensors and harness only
	Grainmeter (optional)	<ul style="list-style-type: none"> Enhances the returns monitor by not only determining the quantity of tailings returns, but also its quality (i.e. how much grain)



Advanced Technology Right Up Front

Feederhouse AUTO CONTOUR (Optional)

AUTO CONTOUR automatically adjusts height, flotation and lateral tilt. This system features a total of 9 degrees of lateral tilt for the HP feederhouse and 6 degrees for the standard feederhouse.



Header Pitch (HP) Feederhouse (Optional)

Always run your header attachment with an optimized cutting angle. Tilt the front plate of the feederhouse by turning a simple and easy-to-use linkage system.



AUTO CONTOUR Sensors

Rolling ground is no excuse for inconsistent cutting heights. Sensors attached to full-depth flexible skid plates detect changes in terrain and trigger header adjustments automatically, allowing you to concentrate on maximizing performance. AUTO CONTOUR is available for all headers.



The Leader in Productivity

One pass is all it takes to know that LEXION combines are powerful performers in the field. The strength of the cutting and feeding systems comes from components that set the LEXION combine apart from the competition.



Feederhouse

The large feederhouse is built to support wide headers. The wide opening and shallow angle provides a smooth crop mat, in preparation for the APS system. The feederhouse length gives you greater visibility of the crop and the header.

Multi-Link Connector

Make seven connections in one step. Four hydraulic and three electrical connections are made quickly with no chance of errors or oil spills.



Hydraulic Reverser

The two-stage engagement of the hydraulic reverser ensures higher reverse torque to clear blockages that may occur in the header or feederhouse.



Variable Speed Feederhouse Drive (Optional)

Harvest faster and protect grain quality at the same time with the optional variable speed feederhouse drive.



Rock Trap

The 10.5 inch-wide, large rock trap opens conveniently from the side making access simple and cleaning uncomplicated. It allows for superior protection and access to the threshing system.



The Accelerated Pre-Separation System (APS) Assures Grain Quality

The LEXION combine's threshing system gently works more crop at one time. The result is a higher quality harvest in less time. This exclusive threshing system is made up of three cylinders: the Accelerated Pre-Separation Cylinder, Main Threshing Cylinder and Impeller.

Impeller

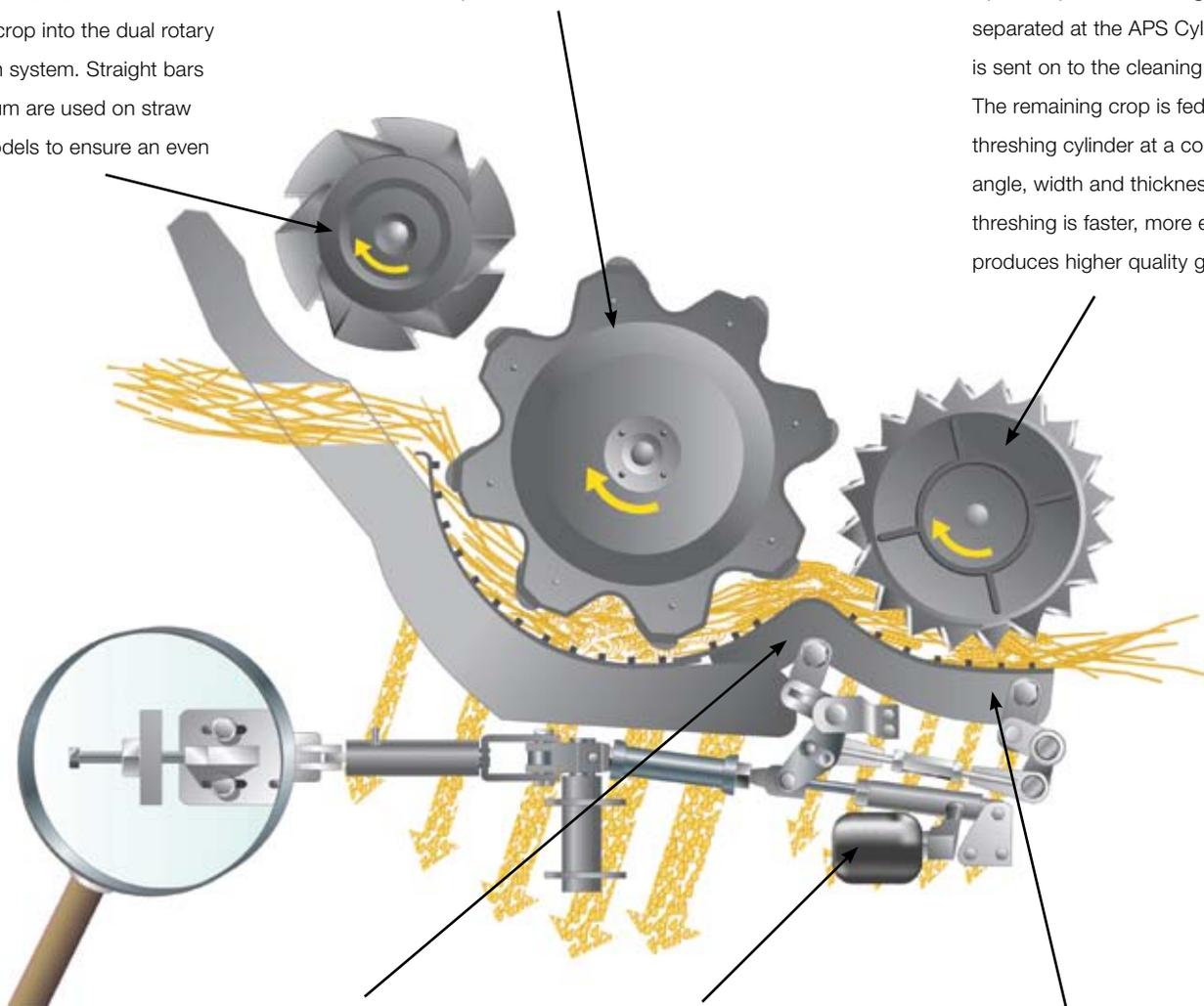
The impeller features a chevron design to divide and feed the threshed crop into the dual rotary separation system. Straight bars on the drum are used on straw walker models to ensure an even crop flow.

Main Cylinder

The 24 inch diameter main threshing cylinder features 8 hardened rasp bars for extended wear.

Accelerated Pre-Separation (APS) Cylinder *LEXION Exclusive*

Up to 30 percent of the grain is separated at the APS Cylinder and is sent on to the cleaning system. The remaining crop is fed to the main threshing cylinder at a constant speed, angle, width and thickness. As a result, threshing is faster, more efficient and produces higher quality grain.



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Single Point Concave Adjustment *Rotary models only.*

Concave adjustment is made simple by a single maintenance adjustment point. A tie rod underneath the concaves links both sides to ensure a constant operation.

Intensive Threshing Segment

Depending on crop conditions, you may choose to install the intensive threshing segment to maximize threshing action.

Hydraulic Overload Protection

The threshing concaves will automatically open if an obstruction is brought in from the feederhouse. When the object has been cleared, the concaves automatically return to their preset positions.

Dis-awning Plate

When harvesting a tough crop it may be necessary to maximize threshing using filler plates. To do so, simply engage the disawning plates using a single lever to cover the concave below the APS cylinder.



APS Concaves

Four main APS concave options are available depending on the crop. Changing the concave grates to match the crop size takes only minutes to perform. Unbolt the brackets holding the three grates securely in place and lift up on each grate. The grates slide out of their frame to allow an alternate sized grate to be installed. Grates are easy to access through the large rock trap.



Main APS Concave Options:

- 1. 18 mm (0.7 in) x 40 mm (1.6 in)**

Standard for corn machines.

- 2. N7/18 mm (0.3 in/0.7 in) x 40 mm (1.6 in)**

Standard for small grain machines.

- 3. Round Bar concave**

Optional for corn and specialty crops

- 4. Spike-tooth rice**

Standard on rice models

Two-Speed Cylinder Drive

(Standard on corn and rice version combines.)
The standard variable cylinder speed range is 395-1,150 rpm on small grain version combines. An optional two-speed system is available and offers an additional speed range that can go as slow as 166-483 rpm to maximize torque and help protect grain quality.



Corn

- **19 mm (0.8 in) x 40 mm (1.6 in)**

Standard for corn combines.

Small Grains

- **6.5 mm (0.25 in) x 40 mm (1.6 in) smooth**

Standard for small grain combines.

Small Grains, aggressive

- **6.5 mm (0.25 in) x 40 mm (1.6 in) with keystone**

Optional through CLAAS Parts.

Soybean, Wire Concave

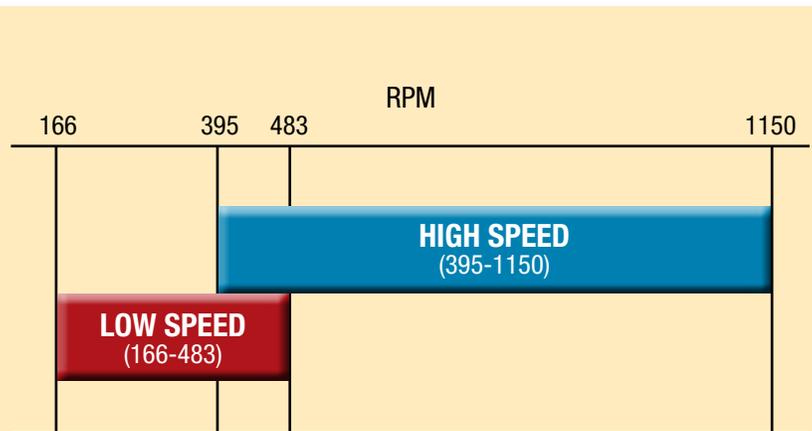
- **10 mm (0.4 in) x 40 mm (1.6 in)**

Optional through CLAAS Parts.

Universal Pressed Concave

- **12 mm (0.5 in) x 40 mm (1.6 in)**

Optional through CLAAS Parts.



Two-Speed Cylinder Drive

The Rotary Separation System – RotoPlus – Uses Gentle, Continuous Centrifugal Force for Final Separation

The RotoPlus Separation System for rotary combine models features two 17.5-inch (445 mm) diameter paddle rotors that generate industry-leading separation force.

Dual Function Rotors

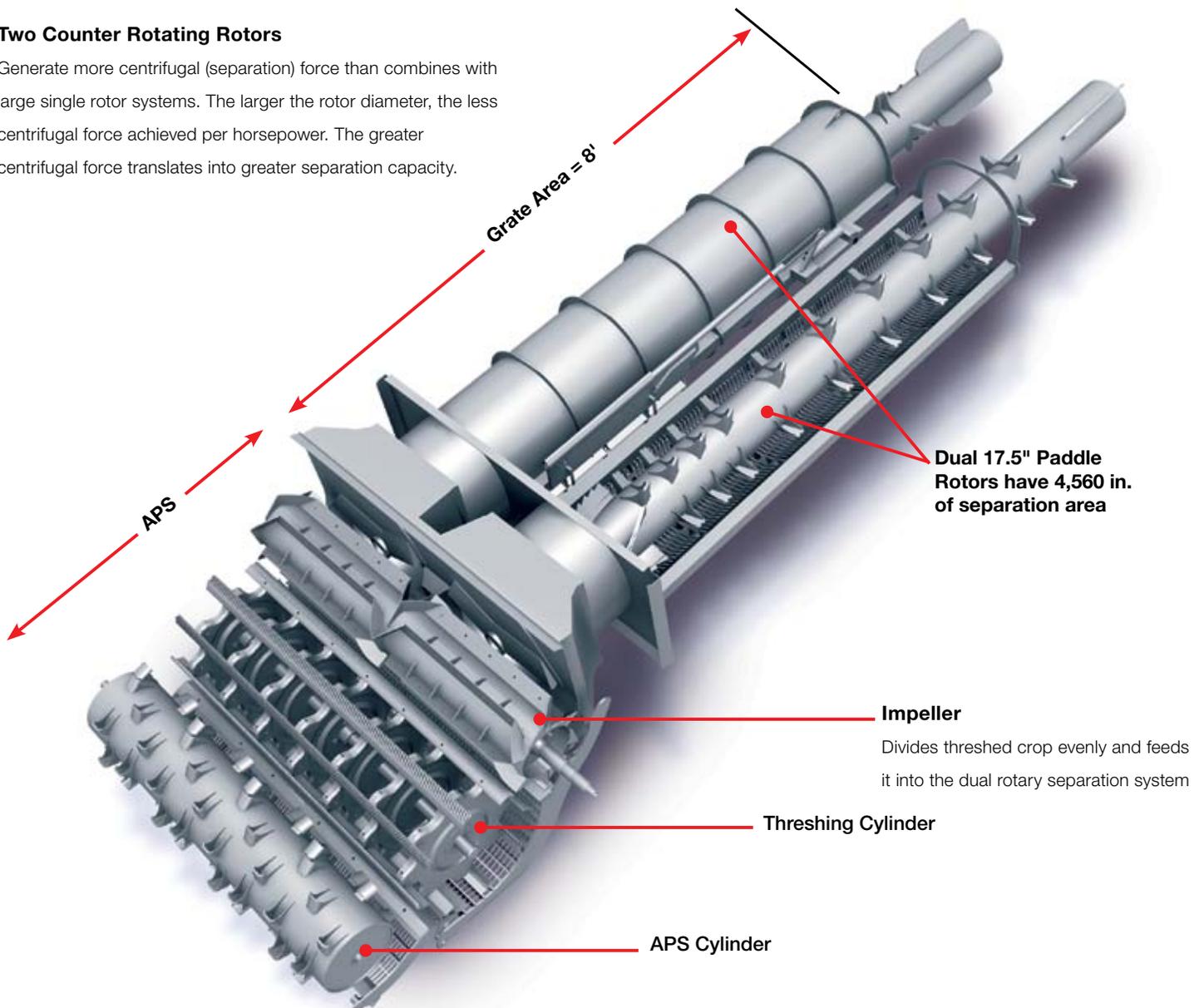
On fragile crops you can set the rotary separation system to provide additional threshing as well as separation. This dual function allows the main threshing cylinder to operate at slower speeds for higher grain quality.

Independent Rotor Speed Adjustment

You can change rotor speeds independently of the threshing system. This versatility compared to single rotor systems provides greater possibility to optimize grain quality and performance more efficiently.

Two Counter Rotating Rotors

Generate more centrifugal (separation) force than combines with large single rotor systems. The larger the rotor diameter, the less centrifugal force achieved per horsepower. The greater centrifugal force translates into greater separation capacity.





Additional G-Force of the Straw Walker Separation System Provides Faster, Higher Quality Results

The LEXION 570 Straw Walker Separation System uses a short walker stroke with faster rotations to achieve leading straw walker separation force.

Impeller

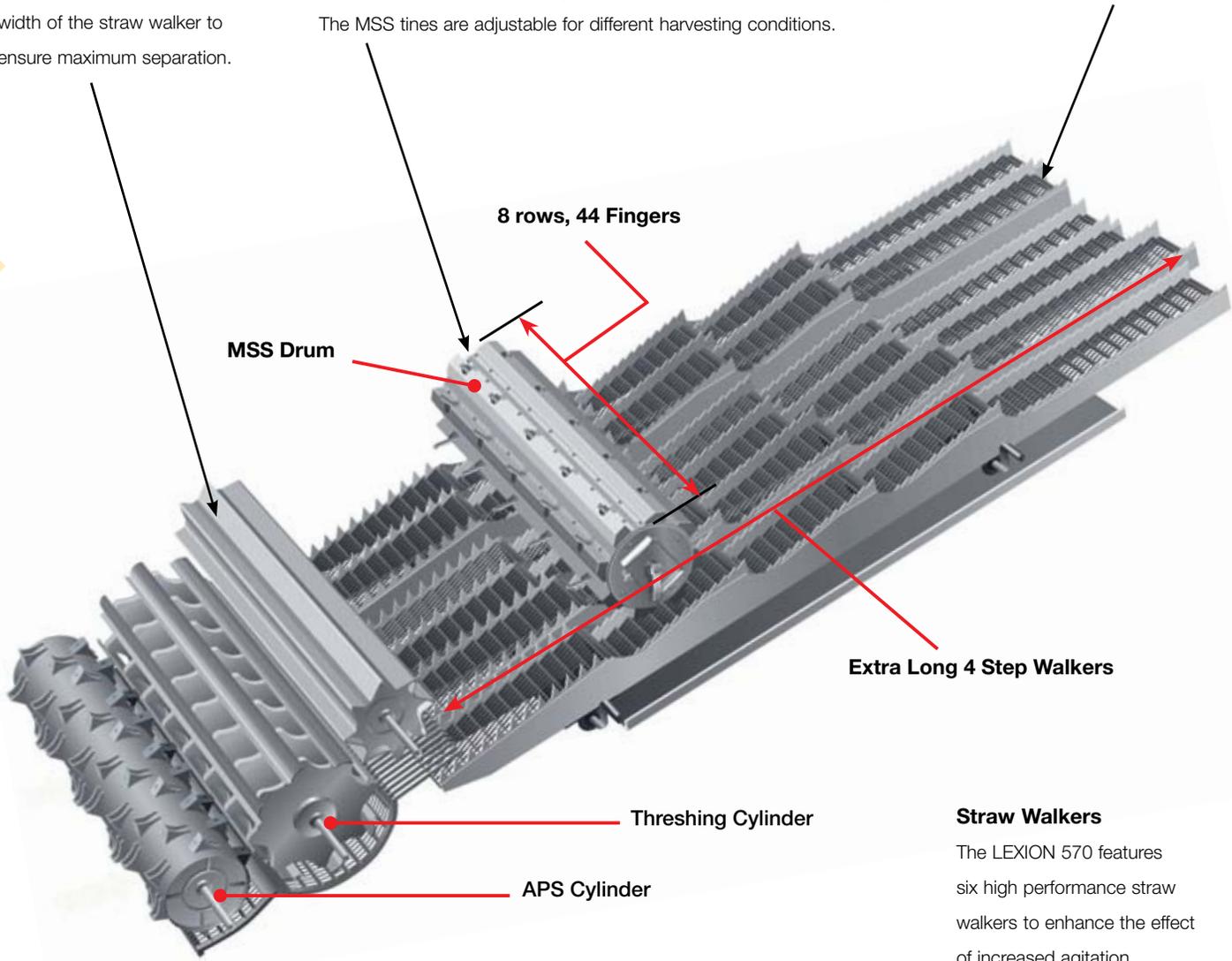
The crop mat is transported from the threshing system to the straw walkers using a straight bar impeller. The impeller spreads a thin crop mat across the entire width of the straw walker to ensure maximum separation.

Multifinger Separation System (MSS)

The Multifinger Separation System consists of a rotating drum fitted with retractable tines over the straw walkers. What makes the MSS so effective is its unique combing action used to thin the crop mat making separation more efficient and thorough. The full length of the straw walkers is used more efficiently, while the straw is kept intact for baling. The MSS tines are adjustable for different harvesting conditions.

Separation Area

Extra-long walkers with, four large steps and leading rotation provide aggressive separation, allowing more of an opportunity to separate grain from the straw.



Straw Walkers

The LEXION 570 features six high performance straw walkers to enhance the effect of increased agitation.



Rotor Cover Plates

Rotor cover plates enable the amount of separation area to be optimized according to different crops and their conditions (i.e. very dry straw) to balance performance more efficiently for greater productivity.

Multi-Speed Rotor System (Standard)

You can set rotor speeds at 500/640/800 rpm on corn version combines or 640/800/962 rpm on small grain and rice version combines. These speed settings let you optimize separation performance.



Electric Rotor Covers (Optional)

For greater flexibility, the operator can optimize the rotor grate area, from the cab, using the electronic rotor cover plates. The cover plates allow the operator to select from three different positions depending on the crop:

- All open
- First segments closed
- First and Second segments closed



Variable Speed Rotor System (Optional)

A rotor speed variator allows you to fine-tune rotor speeds from the cab ranging from 360-1,050 rpm.



An Intensive Cleaning Process that Cleans and Protects the Quality of Your Crop

All LEXION combines offer superior cleaning performance and deliver the highest quality grain you've ever harvested. The *JET STREAM*™ cleaning system effectively separates grain from MOG (Material Other than Grain). In addition, it quickly and smoothly moves more grain than conventional cleaning systems, increasing capacity potential.

Preparation Pans

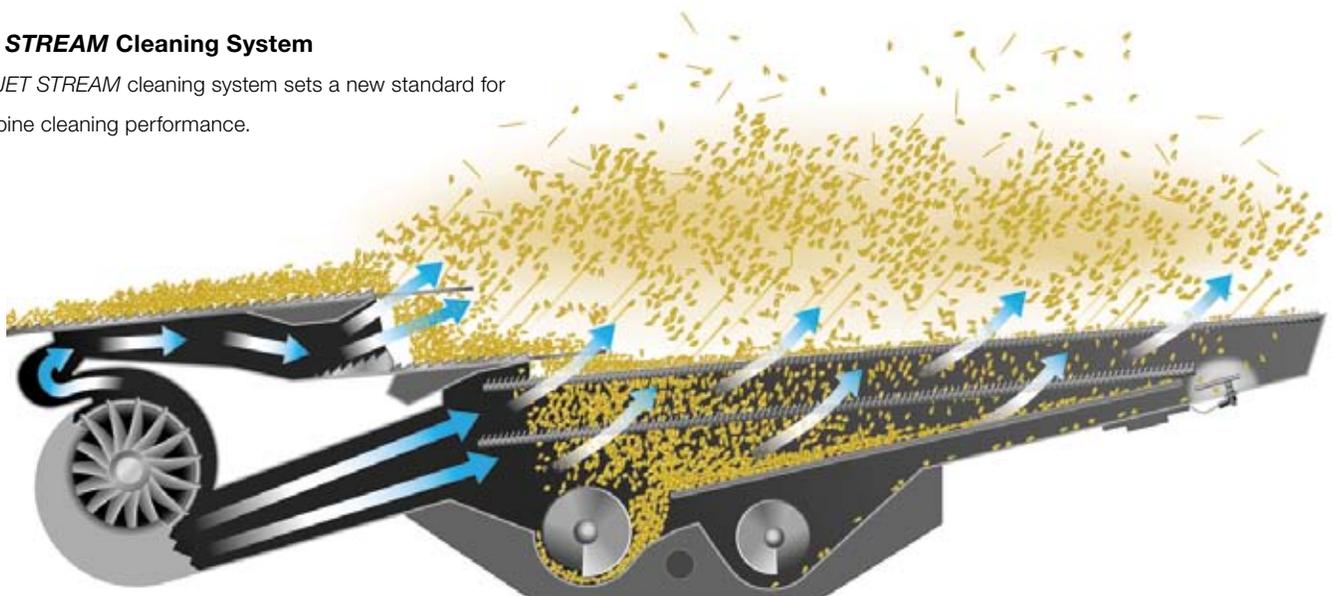
Large preparation pans located directly under the APS threshing system separates the grain from the MOG as it walks the threshed grain to the cleaning system. The heavier grain settles below the lighter MOG allowing the cleaning fan to work more efficiently as material cascades onto the upper sieves. Seed growers will appreciate the removable preparation floor segments making clean-out between crops easy and less time consuming.

JET STREAM Features...

- High performance turbine fans for greater, more consistent wind pressure, adjustable to any size or volume of crop
- Extra large cascade pre-cleaner provides unrestricted (natural) flow across the full width of the sieve area for greater sieve balance
- Optimized cleaning area tuned to match the leading productivity from LEXION combines add up to make the *JET STREAM* the most dynamic cleaning system available!

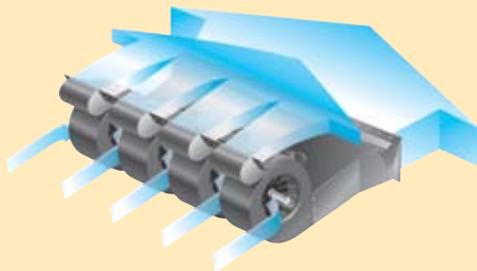
JET STREAM Cleaning System

The *JET STREAM* cleaning system sets a new standard for combine cleaning performance.



Ventilated Sieve System

Turbine fans provide up to 30 percent more air flow than previous designs, which is channeled between the cascade pre-cleaner and sieves. At the pre-cleaner a "hyper-blast" of air is directed towards the falling crop to blast free the chaff and ensure a more consistent placement of the grain on to the upper sieve.



Clean Grain Elevator

The *JET STREAM*'s clean grain elevator features an extra large housing with a heavy-duty conveyor chain fitted with rubber coated paddles to handle grain volumes consistent with the industry leading throughput of a LEXION.



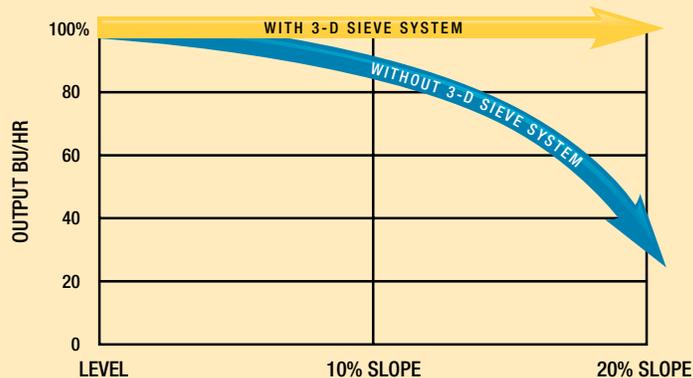
Returns Volume Indicator (Optional)

Keep an eye on the amount of tailings returns going through the system on the CEBIS screen.





HARVESTING ACROSS SLOPES



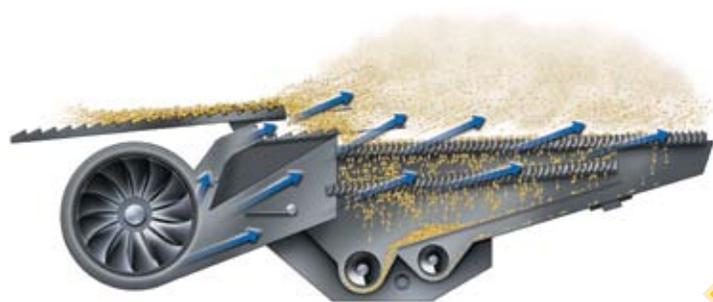
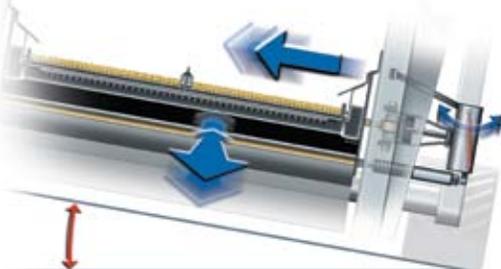
3-D Sieve System (Optional)

The industry exclusive 3-D slope compensation system prevents grain from accumulating on the downhill side of the upper sieve by instantly changing its direction of motion from fore/aft to one that is working in opposition to the slope. This instantaneous response to changing terrain ensures that the grain remains evenly distributed over the entire upper sieve for maximum grain retention. It can even help with reducing loss on the headlands when turning with wide headers.

Before



After



Standard Cleaning System – LEXION 570 only

The high-capacity, standard cleaning system offers effective airflow and efficient cleaning operation. Electrically adjustable sieves are standard.

Full-Width Performance Monitor

An acoustic sensor across the full width of the cleaning system lets you know if you're experiencing any loss.



Returns Elevator Window

In addition to the optional volume sensor, a door to the returns elevator allows you to see if the tailings are chaff-rich or grain-rich.



Store and Unload Clean Grain On the Go

LEXION has always been known for its industry-first features, e.g., the power folding grain tank to minimize moisture and reduce transport height, and the longest unloading auger available to safely unload on the go.



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Folding Grain Tank

The largest power folding grain tank extensions in the industry. Two adjustable sensors inform you of volume levels to prevent overfilling. Four different sizes are available to fit your needs and your operation: 280 bu, 300 bu, 330 bu and 360 bushel capacity, with unloading rates up to 3.3 bushels per second.

Unloading Auger

Grain in the LEXION unloading auger follows a gentle arc as it exits, preventing damage that can occur in “drop out” augers. The unloading auger options feature up to 28.2 ft (8.5 m) of reach from the center of the combine.



Residue Disposal

The Wide-Spread MAV® chopper with high-performance double knife drum and independent chaff spreader provides impressive spreading performance up to 40 ft (12.2 m) for all rotary models. Convert to windrowing by activating a single lever.



Legendary Cat® Engines Power LEXION Combines

Caterpillar® is famous the world over as the leader in diesel engine technology. Cat engines provide advanced electronics and rugged durability to give your combine the power to handle even the toughest conditions.

Fuel Efficiency

Cat engines have received top fuel efficiency results at many University of Nebraska Tractor Test Laboratory evaluations. At 462 hp with a power rise up to 516 hp, the Cat C13 diesel engine gives the LEXION 595R and 590R the highest fuel efficiency in the industry. Of course, all Cat engines meet Tier III EPA emission standards.



Cutting-Edge Technology

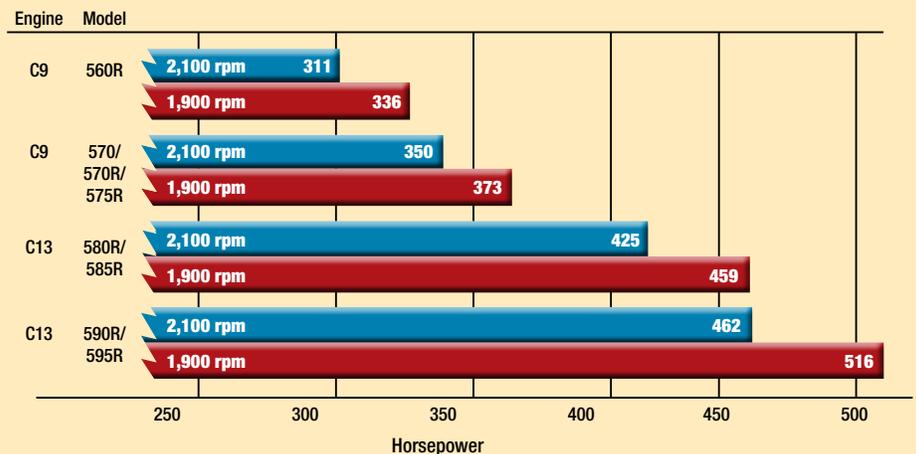
The C9 and C13 engines use ACERT™ (Advanced Combustion Emission Reduction Technology) to ensure smooth operation. Among other things, microprocessors make temperature-sensitive adjustments, cold start adjustments and changes to the fuel-to-air ratio.

Long-Lived, Worry-Free Operation

Caterpillar builds more high-horsepower diesel engines each year than any other company in the world. Cat engineers have pioneered reliability features like integrated oil and coolant lines to virtually eliminate leaks. The bottom line is year after year of reliable operation.

Engine Performance

Each LEXION has ample horsepower for tough conditions, but when you're maximizing capacity and need even more power, you'll appreciate an increase of up to 54 horsepower.



Harvest When the Crop is Ready

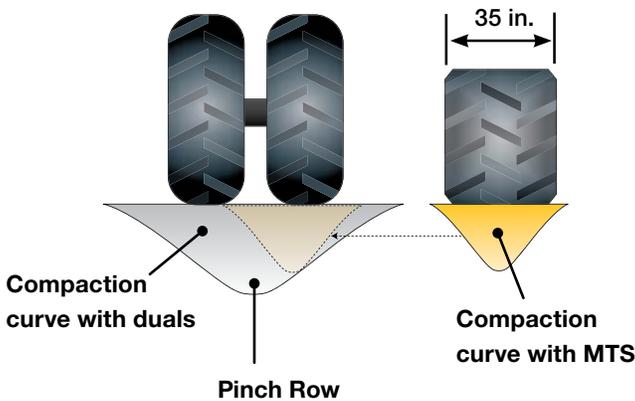
Every day that you can't get in the field because of wet conditions takes a toll on yield. With the exclusive Mobil-Trac System, you can harvest according to your schedule, not the weather's. And with the exclusive suspension system, there's no difference in ride comfort versus a wheeled machine. LEXION combines are the only combines designed specifically for tracks. The result is better performance and longer life.

Advantages

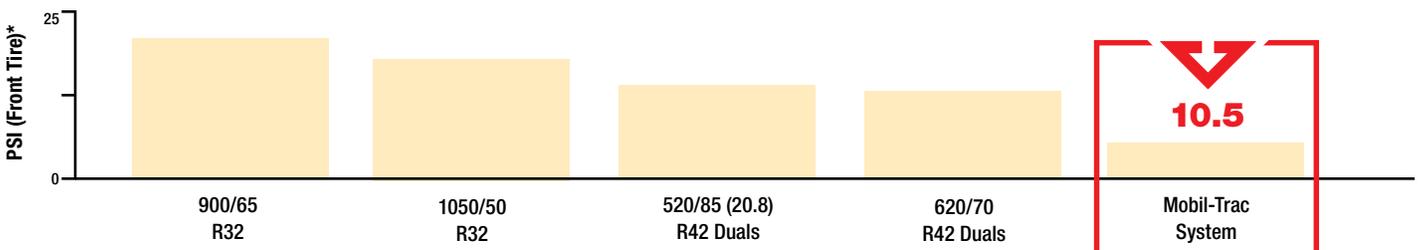
- The Mobil-Trac System delivers unmatched maneuverability in adverse conditions
- Flotation of the Mobil-Trac System is greater than any tire combination available
- Flotation reduces compaction, slippage and provides a smooth ride in all terrains
- Top road speed 18 mph (595R); 16 mph (585R/575R)
- Double reduction final drive
- Standard two-speed powered MudHog® rear axle
- The Mobil-Trac System allows you to harvest your crop when it is ready



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Only 10.5 PSI with Mobil-Trac System



*PSI calculated with recommended tire inflation pressure for a 580R with 12-row corn head and full 330-bushel grain tank.



Powered Rear Axle

(Standard on 575R, 585R, 595R; Optional on all others)

For added traction in tough conditions, MudHog® will keep you going. Engages with the touch of a button in the cab.

The rotary separation models even offer a two-speed powered rear axle with 1885/835 ccm displacements.



Front Tire Options

Size (Metric):	800/65 R32	900/60 R32	900/65 R32	520/85 R42	620/70 R42	1050/50 R32
Size (Imperial):	30.5 - R32	—	—	20.8 - R42	—	—
Tread:	R1, R1W	R1	R2	R1, R2	R1	High Flotation
Load Index:	172	176	172	157	166	—
Configuration:	Single	Single	Single	Dual	Dual	Single
30" (762 mm) Row Tracking:	Excellent	Fair	Fair	Excellent	Excellent	Poor
Flotation:	Fair	Good	Good	Very Good	Very Good	Excellent
Stability:	Good	Good	Good	Very Good	Very Good	Excellent
Ride:	Good	Very Good	Very Good	Very Good	Very Good	Good
Traction:	Very Good	Very Good	Very Good	Excellent	Excellent	Excellent

Mobil-Trac System Options

Width:	35 in (889 mm)
Length:	72 in (1,825 mm)
Tread:	Deep Lug
30" (762 mm) Row Tracking:	Fair
Flotation:	Excellent
Stability:	Excellent
Ride:	Excellent (Suspension)
Traction:	Excellent

Rear Tire Options

Size (Metric):	500/85 R24	620/75 R26	—
Size (Imperial):	—	—	28L R26
Tread:	R1	R1W	R1W + R2
Flotation:	Good	Very Good	Excellent
Stability:	Good	Good	Good
Ride:	Good	Very Good	Good
Traction:	Very Good	Very Good	Excellent

LEXION



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Your harvesting specialist

ROTARY AND STRAW WALKER COMBINES 595R 590R 585R 580R 575R





570R 570 560R



Harvesting is Hard Work – Operating Your LEXION Isn't

A LEXION combine does more than move you through the field productively; it should provide a comfortable work environment. All major functions can be performed in the cab and on-the-go to save you time and effort.

Three-Way Adjustable Steering Column

The steering column tilts and telescopes so you can adjust it perfectly.



Operator Comfort

A roomy, ergonomic air-suspended seat keeps you comfortably in reach of all controls needed to operate the combine.

Instructional Seat

The instructional seat is full size and provides a comfortable place for a second person to observe the field, monitors and operational procedures. The seat also provides additional storage area and can be equipped with an cooler.

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Multi-Function Control Handle

Control 17 functions, including all header operations, unloading auger extension and engagement, as well as combine speed. The handle is built into the right side armrest for comfortable operation.



Overhead Controls

Features like working lights, the cooling compartment, sound system, electric mirrors and automatic climate control (A/C matic) make this cab the most comfortable you've ever experienced.



Operator View

The long feederhouse and large windows allow you to keep an eye on what's happening ahead of you.



Make Adjustments Based on Real-Time Situations

CEBIS is the most advanced on-board combine monitoring system on the market. It displays performance and machine data in a single monitor. CEBIS records harvest information and allows you to make functional adjustments on the go.

CEBIS Functions

- Monitor performance of engine, sieves, rotors and all machine functions
- Direct adjustment of individual components from header to rotor speed
- View on-screen operation and maintenance manual
- Check service intervals and information
- Preset reel heights
- Make 23 automatic crop presets plus custom settings
- Optional printer
- Optional PCMCIA card reader
- Optional yield mapping



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Ag Leader™ (Optional)

All LEXION combines can be ordered with a factory-installed Ag Leader precision farming system. This option includes the 10.4 inch color touch-screen INSIGHT display, Yield and Moisture sensors, GPS 1100 “all-in-the-antenna” unit, the SMS Basic program and Ag Leader sensors. An optional Ag Leader “ready” system, which includes yield and moisture sensors and wiring harness, is also available.

QUANTIMETER

Yield and moisture sensors provide accurate readings while you're harvesting. Yield is determined by a light beam sensor system. A slope sensor ensures accurate yield readings when harvesting on slopes and inclines.

Grainmeter (Optional)

Kernel sensors below the lower sieve detect the amount of grain entering the returns. This information is displayed next to the returns indicator on the CEBIS monitor, helping you to optimize your machine without any visual returns inspection.



Yield Mapping (Optional)

Data provided by the QUANTIMETER and GPS system will help you determine which areas of the field provided the greatest yields.



Yield Monitor

The QUANTIMETER uses a beam of light to calculate the amount of grain in the clean grain elevator.



Slope Sensor

The LEXION combine's computer automatically compensates for slopes when calculating yield.

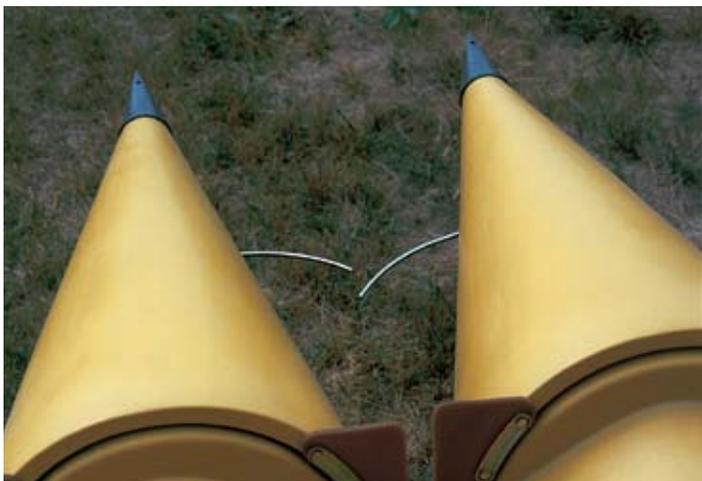


Continuous Moisture Meter

Accurate crop moisture readings ensure precise dry yield calculations and provide you with useful information to make setting adjustments.

Precise Guidance Technology Gives You a Break and Keeps You In Line at the Same Time

The exclusive auto steering systems, available for all LEXION combines, use cutting-edge guidance technology to take the stress out of harvest. Auto steering frees you from constant steering and allows you to concentrate on the field or to fine tune settings without disrupting machine operations. LEXION combines offer you the greatest variety of auto steering systems available right from the factory.



AUTO PILOT for Corn Heads (Optional)

The industry's first AUTO PILOT reduces potential ear loss caused by poor tracking and minimizes operator fatigue. Using whisker-like sensors attached to the center row snouts, AUTO PILOT navigates the combine down the row without the need for GPS. Because the system operates by feel, harvesting down corn stalks is easy. The rugged, low profile poly snouts glide right under the stalks as each sensor feels its way through the field to ensure proper row tracking.

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LASER PILOT for Platform Heads (Optional)

LASER PILOT can be fitted to any LEXION platform head to ensure full-width utilization of the cutterbar. A laser optic sensor mounted to the head's frame monitors the difference in height between cut and uncut crop. The LEXION navigates through the field according to the boundary determined by the difference in height.





Flex Head

F540 *MaxFlex*™

F535 *MaxFlex*™

F530

F525



Seven inches of vertical flex

The F540 and F535 *MaxFlex* cutting system features seven inches of vertical flex. The flex range can be adjusted hydraulically at the header or from the cab. The *MaxFlex* system features a heavy-duty design with split reel, split auger and split knife with dual knife drive.

The F530 and F525 both allow four inches of vertical flex range. All headers can be locked rigid for use in small grains.

Unmatched ground-contour capability

The flexible cutter bar system enables the F540 and F535 *MaxFlex* systems to closely follow the ground in even the toughest terrain changes while the stainless steel floor ensures excellent feeding at the same time.

A center top link on the recommended header-pitch feederhouse makes it easy to adjust the header cutting angle for various ground and crop

conditions. Standard, full depth poly skid plates across the full width of the header work in conjunction with the flexible cutter bar to give the header its superior performance.

Both the F530 and F525 cutting angles can be adjusted using a spacer system to angle the knife up or down. The optional poly skid plates eliminate dirt buildup and reduce friction, resulting in better performance.

Other LEXION flex header standard features:

- Automatic reel speed/height control
- Adjustable reel fore/aft position from the cab
- Hydraulic reel drive
- Poly reel tines with adjustable tine pitch
- Adjustable, spring supported crop dividers for easy flotation
- Auger fingers across the full width of the header
- Single unit coupling system for all hydraulic and electric connection
- Spare knife

Flex Head Specifications

MODEL	F540 <i>MaxFlex</i>	F535 <i>MaxFlex</i>	F530	F525
Cutting width – ft (m)	40 (12.2)	35 (10.7)	30 (9.1)	25 (7.6)
Vertical flex range – in (mm)	7 (178)	7 (178)	4 (102)	4 (102)
Auger				
Diameter – in (mm)	26 (660)	26 (660)	23 (580)	23 (580)
Speed – rpm	205/178	205/178	178/151	178/151
Flighting height – in (mm)	4.75 (120)	4.75 (120)	4 (100)	4 (100)
Reel				
Number of reels	2	2	1	1
Diameter – in (mm)	41.5 (1,054)	41.5 (1,054)	41.5 (1,054)	41.5 (1,054)
Speed – rpm	11 – 79	11 – 79	11 – 79	11 – 79
Hydraulic reel lift	Standard	Standard	Standard	Standard
Hydraulic fore/aft	Standard	Standard	Standard	Standard
Knife				
Type	Serrated (7 tooth/in)	Serrated (7 tooth/in)	Serrated (7 tooth/in)	Serrated (7 tooth/in)
Drive	Dual Planetary Drives	Dual Planetary Drives	Epicyclical Wobble Box	Epicyclical Wobble Box

Grain Head

G540
G535
G530
G525



Even Crop Flow

Consistent crop flow is a characteristic of all LEXION platform headers. The G540 and G535 feature a new high-performance design which uses a split reel, split auger and split knife to achieve a precision cut and positive feeding across its 40-foot cutting width.

Auger Fingers

LEXION platform headers continue to be a leader in performance. All platform headers feature positive feeding action using standard full-width retractable table auger fingers, another industry first by CLAAS.* These unique fingers ensure consistent crop flow from the table to the feederhouse, resulting in a smooth transition of material into the feederhouse and on to the threshing system.

The stainless steel table sections of the G540 and G535 improve wear and provide excellent feeding.

Other LEXION grain header standard features:

- Automatic reel speed/height control
- Adjustable reel fore/aft position from the cab
- Hydraulic reel drive
- Poly reel tines with adjustable tine pitch
- Single unit coupling system for all hydraulic and electric connections
- Spare knife



Grain Head Specifications

MODEL	G540	G535	G530	G525
Cutting width – ft (m)	40 (12.2)	35 (10.7)	30 (9.1)	25 (7.6)
Auger				
Diameter – in (mm)	26 (660)	26 (660)	23 (580)	23 (580)
Speed – rpm	205/178	205/178	205/178	205/178
Flighting height – in (mm)	4.75 (120)	4.75 (120)	4 (100)	4 (100)
Reel				
Number of reels	2	2	1	1
Diameter – in (mm)	41.5 (1,054)	41.5 (1,054)	41.5 (1,054)	41.5 (1,054)
Speed – rpm	11 – 79	11 – 79	11 – 79	11 – 79
Hydraulic reel lift	Standard	Standard	Standard	Standard
Hydraulic fore/aft	Standard	Standard	Standard	Standard
Knife				
Type	Serrated (14 tooth/in)	Serrated (14 tooth/in)	Serrated (14 tooth/in)	Serrated (14 tooth/in)
Drive	Dual Planetary Drives	Dual Planetary Drives	Wobble Box	Wobble Box

Corn Head

- C516-30 C508-38
- C512-30 C508-36
- C512-22 C508-30
- C506-30



Productivity and versatility

LEXION corn heads are available in a range of sizes, from six rows to industry-leading 16 rows, in 22-, 30-, 36- and 38-inch row spacing. This wide range of header options will allow you to precisely match your combine to your operational needs.

- C516-30
- C512-30, C512-22
- C508-38, C508-36, C508-30
- C506-30

Powerful row units

All LEXION corn heads feature powerful and precise cutting action from its proven parallel “knife-to-knife” stalk roll design. Feeding is gently optimized using tapered gathering chains and advanced poly snouts* to ensure that every ear is picked and gathered, keeping material build-up to a minimum.

Adjusting for changing conditions is made fast and easy with in-cab controls for header and feederhouse speed* and deck plate adjustments. Every row unit is protected by an individual ratcheting slip clutch and flexible chain-coupled shafts. All row units use hardened bolt-on knives and rolled-edge deck plates for added durability.

Other LEXION corn header standard features:

- Gear case driven row units and auger (C516)
- Front supported stalk rolls with adjustable, heat-treated knives
- Gathering chain with hardened pins and poly idler sprockets for extended life
- Durable poly snouts* for reduced friction and smooth feeding
- Single-unit coupling system for all hydraulic and electric connections

**depending on model and configuration*

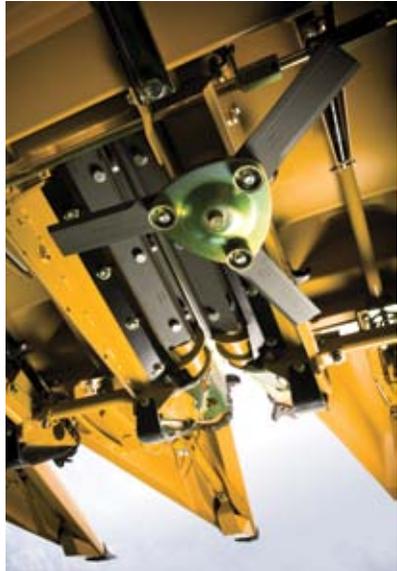
Corn Head Specifications

MODEL	C516-30	C512-30	C512-22**	C508-38**	C508-36**	C508-30	C506-30**
Number of rows	16	12	12	8	8	8	6
Row spacing – in (mm)	30	30	22	38	36	30	30
Dimensions							
Width – ft (m)	40.8 (12.4)	30.8 (9.4)	23 (7.0)	26 (8)	24.3 (7.4)	21 (6.4)	15.7 (4.8)
Weight – lb (kg)	11,500 (5,216)	8,025 (3,640)	6,945 (3,150)	5,952 (2,708)	5,732 (2,600)	5,071 (2,300)	3,968 (1,800)
Row Units							
Knife stalk rolls	Standard						
Reversible knives	Standard						
Drive	Enclosed Gearbox						
Hydraulic deck plates	Standard						
Auger							
Diameter – in (mm)	15.75 (400)	15.75 (400)	15.75 (400)	15.75 (400)	15.75 (400)	15.75 (400)	15.75 (400)
Reverse flighting	Standard						
Options							
AUTO CONTOUR	Optional						
AUTO PILOT	Optional						

**Special order; please contact your local LEXION dealer

Chopping Corn Heads

C512-30 Chopping
C508-30 Chopping



Chopping corn heads

A successful harvest next year begins with good residue management this year. The new chopping corn head, available in 12- or 8-row models in 30-inch row spacing, chops stalks while gently picking the ear. Each row unit is fitted with three rotating blades which are driven right from the row unit gearbox.

Save yourself an extra pass across the field.



Chopping Corn Head Specifications

MODEL	C512-30 Chopping	C508-30 Chopping
Number of rows	12	8
Row spacing – in (mm)	30 (762)	30 (762)
Dimensions		
Width – ft (m)	30.8 (9.4)	21 (6.4)
Row Units		
Knife stalk rolls	Standard	Standard
Reversible knives	Standard	Standard
Drive	Enclosed Gearbox	Enclosed Gearbox
3-blade stalk chopper	Standard	Standard
Hydraulic deck plates	Standard	Standard
Auger		
Diameter – in (mm)	15.75 (400)	15.75 (400)
Reverse flighting	Standard	Standard
Option		
AUTO CONTOUR	Optional	Optional
AUTO PILOT	Optional	Optional

VARIO Heads

V535
V530

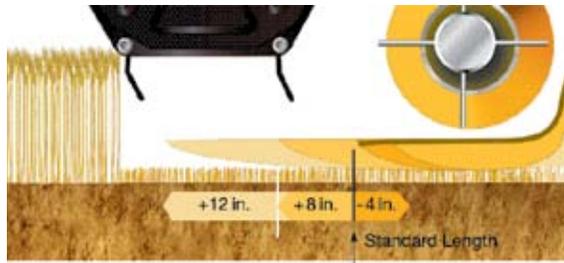


VARIO Heads

The VARIO rigid platform features the newest technology for your small grain operation. The hydraulically adjustable table improves feeding in all conditions and can be changed with the touch of a button from inside the cab.

The VARIO's exclusive extendable table improves feeding and minimizes loss by extending its cutterbar under the crop prior to contact with the reel. Excellent in tall crops and perfect when straight-cutting canola. The optional hydraulically driven vertical knives at each end provide a clean cut. VARIO heads provide direct cut capabilities resulting in lower harvesting costs.

VARIO heads – another North American industry first from CLAAS.



Vario Heads

MODEL	V535	V530
Cutter Bar		
Cutting Width – ft (m)	35 (10.7)	30 (9.1)
Table extension range – in (mm)	24 (600)	24 (600)
Auger		
Diameter – in (mm)	23 (580)	23 (580)
Speed – rpm	178/151	178/151
Flighting height – in (mm)	4 (100)	4 (100)
Reel		
Number of reels	2	1
Diameter – in (mm)	41.5 (1,054)	41.5 (1,054)
Speed – rpm	11 – 79	11 – 79
Hydraulic reel lift	Standard	Standard
Hydraulic fore/aft	Standard	Standard
Automatic reel height	Standard	Standard
Knife		
Type	Serrated	Serrated
Drive	Epicyclical wobble box	Epicyclical wobble box
Vertical knives (Canola)	Optional	Optional
Standards		
AUTO CONTOUR	Standard	Standard
Wide grain-saving deflector	Standard	Standard

Pick-Up Heads and Rice Heads

P514 R525
P516



Pick-Up Heads

LEXION header attachments also include an increased width pick-up attachment. The pick-up trough is available in 14-ft (4.3 m) or 16-ft (4.9 m) width to accommodate large swath. Two different pick-up configurations are also available.

Pick-Up Heads (Available as *Swathmaster™* or *Rake-Up™*)

MODEL	P514	P516
Cutter bar		
Trough width – ft (m)	14 (4.3)	16 (4.9)
Auger		
Diameter – in (mm)	24 (610)	24 (610)
Speed – rpm	185	185
Pickup		
Drive	Mechanical	Mechanical
Hydraulic crop hold down	Standard	Standard
Draper belts		
Number of belts	8	9
Overall width to tire edges		
Belt pickup – ft (m)	16 (4.9)	17.8 (5.3)
Rake-up – ft (m)	16.4 (5)	18 (5.4)

Rice Heads

The R525 rice header features a 25-foot rigid platform and double cut knife. Its table auger is equipped with full-width retractable fingers to ensure smooth and consistent feeding and the reel is equipped with adjustable poly tines for added performance and durability. A powerful wobble box knife drive is a perfect match for the tough conditions often encountered during rice harvest. Optional AUTO CONTOUR sensing bands can be added to ensure a consistent cut, even when crossing levees.



Rice Heads

MODEL	R525
Cutting widths – ft (m)	25 (7.6)
Auger	
Distance to knife – in (mm)	23 (580)
Distance – in (mm)	23 (580)
Speed – rpm	204*
Reel	
Pickup reel	6
Drive – rpm	0 – 79
Diameter – in (mm)	41.5 (1,054)
Reel lift	Hydraulic
Reel fore/aft	Hydraulic
Knife	
Type	Double knife-serrated
Drive	Wobble box

*with 15T sprocket

Experience Field Time—*NOT* Downtime

Ease of maintenance is a major design feature of LEXION combines. The engine, radiator and internal components are easily accessible for maximum uptime.

Auto Lube System (Optional)

Automatic central lubrication system provides peace of mind and ease of service for major bearings and greased components.



Grease Banks

Centralized grease banks are located in easily accessible areas to minimize service time.



Sieve Access

An open cleaning system design with a hinged chaff spreader allows for easy access to the sieve area.



Multi-tasking Ladder

The rear ladder can be fixed to the machine at key service or inspection areas.



Service Doors

Large service doors open wide on each side of the machine and in the rear. The service doors have a locking mechanism that keeps the doors open during servicing and feature optional service lights under the panel.



Extensive Clean-Out

Clean-out between crops after harvest is simple with an automatic clean-out setting and quick-release latches on the lower grain handling system.



Engine/Radiator Access

The engine cover opens to reveal a clean engine compartment with easy access to key service areas. The cooling housing also can be accessed from the engine platform with full access to every cooling core.



Toolbox

The integrated storage space can accommodate a large toolbox and the battery, as well as additional storage area, e.g. for a portable service light.







24/7 Parts Network and On-Site Diagnosis and Repair Will Keep You Up and Running

LEXION dealers earn their business by delivering responsive, skilled service to every customer. No matter where you are, your dealer's main focus is keeping your equipment running.



CLAAS Parts Distribution Network

Every LEXION dealer is connected to the 24/7 on-line parts network.

CLAAS Parts distribution warehouses are located regionally throughout North America.

Mobile Service Fleet

Contact your LEXION dealer and their trained technicians will provide a solution to get your machine running, saving you valuable harvest time.

Preventive Maintenance

LEXION dealers use proven methods including scheduled oil sampling to prevent problems from ever occurring.

Service is Never Far

LEXION dealers across North America have the training and experience to support the industry's leading combine harvester.



Financing never has to stand between you and owning or leasing a LEXION. Competitive terms and flexible payment schedules, as well as add-on insurance and extended warranties are available.



LEXION Rotary Combine Specifications

MODEL	595R / 590R	585R / 580R	575R / 570R	560R
Pre-Separation				
Type	APS	APS	APS	APS
Threshing				
Cylinder diameter	24 in (600 mm)			
Cylinder width	67 in (1,700 mm)	56 in (1,420 mm)	56 in (1,420 mm)	56 in (1,420 mm)
Pre-concave grate area	685 in ² (0.44 m ²)	572 in ² (0.37 m ²)	572 in ² (0.37 m ²)	572 in ² (0.37 m ²)
Main concave grate area	1,992 in ² (1.28 m ²)	1,664 in ² (1.07 m ²)	1,664 in ² (1.07 m ²)	1,664 in ² (1.07 m ²)
Transition grate area	-	-	-	-
Total threshing area	2,677 in ² (1.73 m ²)	2,236 in ² (1.44 m ²)	2,236 in ² (1.44 m ²)	2,236 in ² (1.44 m ²)
Separation				
Type	Paddle rotor	Paddle rotor	Paddle rotor	Paddle rotor
Number of rotors/walkers	2	2	2	2
Length	102 in (2,600 mm)			
Diameter	17.5 in (445 mm)			
Grate opening	150°	120°	120°	120°
Separation area	5,735 in ² (3.70 m ²)	4,650 in ² (3.00 m ²)	4,650 in ² (3.00 m ²)	4,650 in ² (3.00 m ²)
Total Threshing & Separation Area	8,412 in² (5.43 m²)	6,886 in² (4.44 m²)	6,886 in² (4.44 m²)	6,886 in² (4.44 m²)
Cleaning System				
Type	<i>JET STREAM™</i>	<i>JET STREAM™</i>	<i>JET STREAM™</i>	<i>JET STREAM™</i>
Total cleaning area	9,610 in ² (6.20 m ²)	7,905 in ² (5.10 m ²)	7,905 in ² (5.10 m ²)	7,905 in ² (5.10 m ²)
Cleaning fan	8 turbine fans	6 turbine fans	6 turbine fans	6 turbine fans
Electric sieve adjustment	Standard	Standard	Standard	Standard
3-D sieve	Optional	Optional	Optional	Optional
Residue Management				
Chaff spreader	Optional	Optional	Optional	Optional
Straw chopper – MAV®	Optional	Optional	Optional	Optional
Engine				
Caterpillar® model	C13	C13	C9	C9
Horsepower @ 2,100 rpm	462 hp (345 kW)	425 hp (317 kW)	350 hp (261 kW)	311 hp (232 kW)
Horsepower @ 1,900 rpm	516 hp (385 kW)	459 hp (343 kW)	373 hp (278 kW)	336 hp (251 kW)
Capacities				
Grain tank	360 bu (12,700 L)	330 bu (11,600 L)	300 bu std. (10,600 L)/ 330 bu opt.	280 bu (10,000 L)
Unloading rate	3.3 bu/sec**	3.3 bu/sec**	2.8 bu/sec std./ 3.3 bu/sec opt.**	2.8 bu/sec
Fuel tank	210 gal (800 L)			
Tracks/Wheels				
MTS™ with suspension	595R	585R	575R	n/a
Drive axle capacity	28 ton	24 ton	24 ton	24 ton
MudHog® rear axle, 1-speed	n/a	n/a	n/a	n/a
MudHog® rear axle, 2-speed	Standard/Optional	Standard/Optional	Standard/Optional	Optional
Transport Weight				
Wheel combine	43,750 lb (19,850 kg)***	37,500 lb (17,000 kg)***	36,375 lb (16,500 kg)***	35,275 lb (16,000 kg)***
MTS™ combine	49,750 lb (22,570 kg)	43,500 lb (19,750 kg)	41,875 lb (19,000 kg)	

*with standard APS adjustment mechanism

**2.8 bu/sec for rice configuration

***Weight varies with options; calculations based on 900/60 R32 tire option

LEXION Straw Walker Combine Specifications

MODEL	570
Pre-Separation	
Type	APS*
Threshing	
Cylinder diameter	24 in (600 mm)
Cylinder width	67 in (1,700 mm)
Pre-concave grate area	685 in ² (0.44 m ²)
Concave grate area	1,992 in ² (1.28 m ²)
Transition grate area	501 in ² (0.32 m ²)
Total grate area	3,178 in ² (2.05 m ²)
Separation	
Number of walkers	6
Length	173 in (4,400 mm)
Separation area	11,507 in ² (7.42 m ²)
Total Threshing & Separation Area	14,685 in ² (9.47 m ²)
Cleaning System	
Type	Standard
Total cleaning area	9,286 in ² (6.00 m ²)
Cleaning fan	6 turbine fans
Electric sieve adjustment	Standard
3-D sieve	Optional
Residue Management	
Chaff spreader	Optional
Straw chopper – MAV® / Wide-Spread	Optional
Engine	
Caterpillar® model	C9
Horsepower @ 2,100 rpm	350 hp (261 kW)
Horsepower @ 1,900 rpm	373 hp (278 kW)
Capacities	
Grain tank	280 bu (10,000 L)
Unloading rate	2.8 bu/sec
Fuel tank	210 gal (800 L)
Tracks/Wheels	
Drive axle capacity	24 ton
MudHog® rear axle, 1250 ccm powered	Optional
Transport Weight	32,000 lb (14,515 kg)

*with standard APS adjustment mechanism †Small grain only (corn requires Wide-Spread)



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LEXION

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